



241	.	.	.	.	.	.	.	.	.	K	.	.	.	.	.	.	.	Porcine FVIII
240	R	S	L	P	G	L	I	G	C	H	R	K	S	V	Y	W	H	Human FVIII
261	.	.	.	S	.	.	.	.	.	.	.	.	.	.	.	.	.	Porcine FVIII
260	M	G	T	T	P	E	V	H	S	I	F	L	E	G	H	T	F	Human FVIII
281	H	.	.	.	.	.	.	.	.	.	.	L	.	.	.	.	.	Porcine FVIII
280	N	H	R	Q	A	S	L	E	I	S	P	I	T	F	L	T	A	Human FVIII
301	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	H	G	Porcine FVIII
300	L	M	D	L	G	Q	F	L	L	F	C	H	I	S	S	H	Q	Human FVIII
321	.	.	.	H	.	R	.	E	.	.	A	.	.	.	.	.	R	Porcine FVIII
320	M	E	A	Y	V	K	V	D	S	C	P	E	E	P	Q	L	R	Human FVIII
341	D	.	.	-	.	.	.	.	.	N	.	Y	.	.	D	.	.	Porcine FVIII
340	N	E	E	A	E	D	Y	D	D	D	L	T	D	S	E	M	D	Human FVIII
360	L	.	G	.	D	V	S	P	.	.	.	.	.	.	.	.	.	Porcine FVIII
360	F	D	D	D	N	S	P	S	F	I	Q	I	R	S	V	A	K	Human FVIII
380	.	.	.	.	.	.	.	S	.	.	.	.	.	.	.	.	A	Porcine FVIII
380	K	T	W	V	H	Y	I	A	A	E	E	E	D	W	D	Y	A	Human FVIII
400	P	S	.	S	.	.	.	.	.	.	L	.	.	.	S	.	.	Porcine FVIII
400	L	A	P	D	D	R	S	Y	K	S	Q	Y	L	N	N	G	P	Human FVIII
420	.	.	.	.	.	.	.	A	.	.	V	.	.	.	V	.	.	Porcine FVIII
420	G	R	K	Y	K	K	V	R	F	M	A	Y	T	D	E	T	F	Human FVIII
440	K	.	.	P	Y	.	.	.	.	.	.	.	.	.	.	.	.	Porcine FVIII
440	E	A	I	Q	H	E	S	G	I	L	G	P	L	L	Y	G	E	Human FVIII
460	.	.	.	.	.	.	.	.	K	.	.	.	.	.	.	.	.	Porcine FVIII
460	T	L	L	I	I	F	K	N	Q	A	S	R	P	Y	N	I	Y	Human FVIII
480	.	.	.	.	S	A	.	H	P	G	.	.	L	.	.	W	.	Porcine FVIII
480	I	T	D	V	R	P	L	Y	S	R	R	L	P	K	G	V	K	Human FVIII
500	.	M	.	.	.	.	.	.	T	.	.	.	.	.	.	.	.	Porcine FVIII
500	D	F	P	I	L	P	G	E	I	F	K	Y	K	W	T	V	T	Human FVIII
520	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	S	I	Porcine FVIII
520	G	P	T	K	S	D	P	R	C	L	T	R	Y	Y	S	S	F	Human FVIII
540	.	K	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	Porcine FVIII
540	E	R	D	L	A	S	G	L	I	G	P	L	L	I	C	Y	K	Human FVIII
560	.	.	.	.	.	.	.	M	.	.	.	.	.	.	.	.	.	Porcine FVIII
560	D	Q	R	G	N	Q	I	M	S	D	K	R	N	V	I	L	F	Human FVIII
580	.	.	.	Q	.	.	.	.	A	.	.	.	.	.	.	.	.	Porcine FVIII
580	D	E	N	R	S	W	Y	L	T	E	N	I	Q	R	F	L	P	Human FVIII
600	.	L	.	P	Q	.	.	.	.	.	.	.	.	.	.	.	.	Porcine FVIII
600	G	V	O	L	E	D	P	E	F	O	A	S	N	I	M	H	S	Human FVIII

Fig. 2: Mutations of human FVIII which are based on a protein comparison with porcine FVIII (does not comprise all mutations which are possible according to the invention):

aa (mature human FVIII)	Amino acid in human sequence	Mutated to	Or mutated to
318	D	G	K
337	M	R	
340	N	D	
349	D	N	K
364	N	D	
403	D	S	K
434	E	V	K
440	E	K	
468	Q	K	
484	R	S	E
489	R	G	E
583	R	Q	E
599	A	D	
604	E	Q	K

Fig. 3: Mutations of human FVIII which are based on an analysis of existing human mutations leading to an enhanced dissociation of the A2 domain (does not comprise all mutations possible according to the invention)

aa (Mature human FVIII)	From (human sequence)	To	Comments
284	A	K	A to E leads to enhanced dissociation of A2 domain
1948	G	K	G to D leads to enhanced dissociation of A2 domain